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NOTICE OF ALLOWANCE AND FEE(S) DUE

27074

7590

04/05/2004

OLIFF & BERRIDGE, PLC. P.O. BOX 19928 ALEXANDRIA, VA 22320 EXAMINER PHAM, HAI CHI

PAPER NUMBER

ART UNIT

DATE MAILED: 04/05/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/683,537	01/16/2002	Gary R. Skillman	110241	7726

TITLE OF INVENTION: METHOD OF REDUCING ELECTROMAGNETIC EMISSIONS (EMI) FROM LED BAR SYSTEMS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	07/06/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
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Alexandria, Virginia 22313-145

			or Fo		ginia 22313-1450	
INSTRUCTIONS: This for appropriate. All further co indicated unless corrected maintenance fee notification	below or directed otherwise	smitting the ISSU Patent, advance ord in Block 1, by (a)	or <u>Fa</u> IE FEE and PU ders and notific) specifying a r	JBLICATION FEE (if requarion of maintenance fees	uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDEN	CE ADDRESS (Note: Legibly mark-up	with any corrections or	use Block 1)	Note: A certificate of Fee(s) Transmittal. T papers. Each addition	of mailing can only be used finis certificate cannot be used nal paper, such as an assignmente of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
27074 7590 04/05/2004						
OLIFF & BERR P.O. BOX 19928 ALEXANDRIA, V	•			I hereby certify that States Postal Service addressed to the Manager	ertificate of Mailing or Tran this Fee(s) Transmittal is beir with sufficient postage for fi ail Stop ISSUE FEE address PTO, on the date indicated be	ig deposited with the United rst class mail in an envelope a above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
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nonprovisional	NO	\$1330)	\$300	\$1630	07/06/2004
EXA	MINER	ART UN	IIT	CLASS-SUBCLASS		
РНАМ,	, HAI CHI	2861		347-255000		
1. Change of corresponden CFR 1.363).	ce address or indication of "F	ee Address" (37		ing on the patent front paging to 3 registered patent		
☐ Change of correspond Address form PTO/SB/	dence address (or Change of 0122) attached.	Correspondence	agents OR, firm (having	alternatively, (2) the name g as a member a registered	e of a single	
☐ "Fee Address" indica PTO/SB/47; Rev 03-02 Number is required.	tion (or "Fee Address" Indica or more recent) attached. Us	tion form e of a Customer		the names of up to 2 reging agents. If no name is list ted.		
3. ASSIGNEE NAME AN	D RESIDENCE DATA TO B	E PRINTED ON T	THE PATENT ((print or type)		
PLEASE NOTE: Unles been previously submitt (A) NAME OF ASSIG!				on the patent. Inclusion of ompletion of this form is Note: (CITY and STATE OR C	assignee data is only appropr DT a substitute for filing an as OUNTRY)	iate when an assignment has signment.
Please check the appropria	te assignee category or catego	ories (will not be pr	rinted on the pat	tent); 🗖 individual 🖺	corporation or other private g	roup entity 🚨 governmen
4a. The following fee(s) are	e enclosed:	41	o. Payment of Fo	ee(s):		
☐ Issue Fee				the amount of the fee(s) is e		
Publication Fee				credit card. Form PTO-203		•••
☐ Advance Order - # o	f Copies		The Director Deposit Accou		charge the required fee(s), or (enclose an extra	credit any overpayment, to copy of this form).
Director for Patents is requ	ested to apply the Issue Fee a	nd Publication Fee	(if any) or to re	e-apply any previously paid	issue fee to the application id	entified above.
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other than the applicant interest as shown by the r	nd Publication Fee (if requires, a registered attorney or agreecords of the United States Possible 1992 (PD)	ent; or the assign atent and Trademan	ee or other par rk Office.	rty in		
This collection of inform obtain or retain a benefit application. Confidential	nation is required by 37 CFR t by the public which is to fity is governed by 35 U.S.C.	1.311. The informula ile (and by the US) 122 and 37 CFR 1.	nation is requir SPTO to proces 14. This collect	red to ss) an ion is		

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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09/683,537		01/16/2002	Gary R. Skillman	110241	7726	
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P.O. BOX 1992 ALEXANDRIA		20		ART UNIT	PAPER NUMBER	
ALEXANDRIA	A, VA 223.	20		2861		
				DATE MAILED: 04/05/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 170 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 170 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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Appli	ication No.	Applicant(s)	0
09/68	33,537	SKILLMAN, GARY R	
Notice of Allowability Exam	niner	Art Unit	
Hai C	Pham	2861	
The MAILING DATE of this communication appears on All claims being allowable, PROSECUTION ON THE MERITS IS (OR Referewith (or previously mailed), a Notice of Allowance (PTOL-85) or othe NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS of the Office or upon petition by the applicant. See 37 CFR 1.313 and Marketing Communication appears of the Office or upon petition by the applicant.	EMAINS) CLOSED in this ap er appropriate communication . This application is subject to	plication. If not included will be mailed in due c	d ourse. THIS
1. This communication is responsive to Amendment filed 01/20/04.			
2. The allowed claim(s) is/are <u>1-20</u> .			
3. $igotimes$ The drawings filed on <u>16 January 2002</u> are accepted by the Exan	niner.		
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been 2. ☐ Certified copies of the priority documents have been 3. ☐ Copies of the certified copies of the priority document International Bureau (PCT Rule 17.2(a)).	received. received in Application No		on from the
* Certified copies not received:			irama anta
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this noted below. Failure to timely comply will result in ABANDONMENT of THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	communication to file a reply of this application.	complying with the requ	uirements
 A SUBSTITUTE OATH OR DECLARATION must be submitted. N INFORMAL PATENT APPLICATION (PTO-152) which gives reas 	Note the attached EXAMINER son(s) why the oath or declara	d'S AMENDMENT or NO ation is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must be so	ubmitted.		
(a) \square including changes required by the Notice of Draftsperson's F	Patent Drawing Review (PTO	-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Ame Paper No./Mail Date	ndment / Comment or in the 0	Office action of	
Identifying indicia such as the application number (see 37 CFR 1.84(c)) each sheet. Replacement sheet(s) should be labeled as such in the hea	should be written on the drawi	ings in the front (not the l	back) of
7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR 1	BIOLOGICAL MATERIAL	must be submitted. N	ote the
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application (PTC	-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
	Paper No./Mail Da 7. ☐ Examiner's Amend	ate ment/Comment	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 10/03/03 Examiner's Comment Regarding Requirement for Deposit 	8. 🛛 Examiner's Statem	ent of Reasons for Allov	wance

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: claims 1 and 15 are patentable over the prior art patents and printed publications because of the specific provision of the spread spectrum clock generator, which is coupled to the printer control unit, which in turn includes a data formatting unit and a clock circuit and is coupled to the array of light emitting diodes, wherein the spread spectrum clock generator modulates the clock circuit to generate a clock output signal having reduced amplitude electromagnetic interference spectral components such that electromagnetic interference emissions from the array of the light emitting diodes are reduced. The combined limitations as claimed are not taught by the art of record alone or in combination.

Claim 8 is patentable over the prior art patents and printed publications because of the specific provision of the spread spectrum clock generator, which is coupled to the array of the light emitting diodes of the LED bar system to generate a clock output signal having reduced amplitude electromagnetic interference spectral components such that electromagnetic interference emissions from the array of the light emitting diodes are reduced, and wherein the array of the light emitting diodes is coupled to a control unit having a data formatting unit and a clock circuit to enable properly timed activation of individual light emitting diodes of the array. The combined limitations as claimed are not taught by the art of record alone or in combination.

Claims 2-7, 9-14 and 16-20 are allowed because they are directly or indirectly

dependent from claims 1, 8 and 15 above.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hai C Pham whose telephone number is (571) 272-

2260. The examiner can normally be reached on M-F 8:30AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen D Meier can be reached on (571) 272-2149. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

HAI PHAM
PRIMARY EXAMINER

Harshilham

March 31, 2004